		Future Flight D	Design
		2003 Scien	
		Content Stand	lards
New Mexico Science	е		
Grade 5			
Activity/Lesson	State	Standards	
Air Transportation Problem	NM	SCI.5.I.I.1.1	Plan and conduct investigations, including formulating testable questions, making systematic observations, developing logical conclusions, and communicating findings.
Air Transportation Problem	NM	SCI.5.I.I.I.2	Use appropriate technologies (e.g., calculators, computers, balances, spring scales, microscopes) to perform scientific tests and to collect and display data.
Air Transportation			Understand that scientific conclusions are
Problem	NM	SCI.5.I.I.II.2	subject to peer and public review.
Air Transportation Problem Air Transportation Problem	NM NM	SCI.5.I.I.III.2 SCI.5.I.I.III.3	Use mathematical skills to analyze data.  Make predictions based on analyses of data,
Air Transportation Problem	NM	SCI.5.III.III.3	observations, and explanations.  Describe how various technologies have affected the lives of individuals (e.g., transportation, entertainment, health).
Aircraft Design	NM	SCI.5.I.I.III.4	Understand the attributes to be measured in a scientific investigation and describe the units, systems, and processes for making the measurement.
Aircraft Design			Identify forces in nature (e.g., gravity,
Problem	NM	SCI.5.II.I.III.3	magnetism, electricity, friction).
Aircraft Design Problem	NM	SCI.5.II.I.III.4	Understand that when a force (e.g., gravity, friction) acts on an object, the object speeds up, slows down, or goes in a different direction.
		Future Flight D	)esian
		2003 Scien	
		Content Stand	
New Mexico Science	e e		
Grade 6	<i>-</i> -		
Activity/Lesson	State	Standards	
ACTIVITY/LESSOII	State	Jianuarus	Understand that scientific investigations use common processes that include the collection of relevant data and observations, accurate measurements, the identification and control of variables, and logical
Air Transportation			reasoning to formulate hypotheses and
Problem	NM	SCI.6.I.I.II.2	explanations.
Aircraft Design			Know that every object exerts gravitational force on every other object dependent on the masses and distance of separation (e.g.,
Problem	NM	SCI.6.II.I.III.1	motions of celestial objects, tides).

		Future Flight Do 2003 Science					
		Content Stand					
New Mexico Scien	ce	Joniem Gland					
Grade 7							
Activity/Lesson	State	Standards					
			Use a variety of print and web resources to				
Air Transportation			collect information, inform investigations, and				
Problem	NM	SCI.7.I.I.I.1	answer a scientific question or hypothesis.				
A : T			Use mathematical expressions to represent				
Air Transportation	NIN A	0017111110	data and observations collected in scientific				
Problem	NM	SCI.7.I.I.III.2	investigations.				
		Future Flight Do	osian				
		2003 Science					
	Content Standards						
New Mexico Scien	ce						
Grade 8							
Activity/Lesson	State	Standards					
Air Transportation			Use a variety of technologies to gather,				
Problem	NM	SCI.8.I.I.I.2	analyze and interpret scientific data.				
Air Transportation			Know how to recognize and explain				
Problem	NM	SCI.8.I.I.I.3	anomalous data.				
Air Transportation Problem	NM	SCI.8.I.I.III.1	Use mathematical expressions and techniques to explain data and observations and to communicate findings (e.g., formulas and equations, significant figures, graphing, sampling, estimation, mean).				
	1		Critically analyze risks and benefits				
Air Transportation			associated with technologies related to				
Problem	NM	SCI.8.III.I.I.4	energy production.				
			Know that there are fundamental forces in				
Aircraft Design			nature (e.g., gravity, electromagnetic forces,				
Problem	NM	SCI.8.II.I.III.F.1	,				
Aircraft Design			Know that a force has both magnitude and				
Problem	NM	SCI.8.II.I.III.F.2					
Aircraft Design			Analyze the separate forces acting on an object at rest or in motion (e.g., gravity, elastic forces, friction), including how multiple forces reinforce or cancel one another to result in a net force that acts on				
Problem	NM	SCI.8.II.I.III.F.3					
Aircraft Design Problem	NM	SCI.8.II.I.III.M. 7	Know that an object's motion is always described relative to some other object or point (i.e., frame of reference).				
Aircraft Design Problem	NM	SCI.8.II.I.III.M. 8.a	Objects in motion will continue in motion and objects at rest will remain at rest unless acted upon by an unbalanced force (inertia).				

Aircraft Design		SCI.8.II.I.III.M.	If a greater force is applied to an object a
Problem	NM	8.b	proportionally greater acceleration will occur.
Aircraft Design		SCI.8.II.I.III.M.	If an object has more mass the effect of an
Problem	NM	8.c	applied force is proportionally less.
			Critically analyze risks and benefits
Aircraft Design			associated with technologies related to
Problem	NM	SCI.8.III.I.I.4	energy production.